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	Application No.	Applicant(s)
Notice of Allowability	10/661,550	WHITE, NORMAN HENRY
	Examiner	Art Unit
	Mohammad Ali	3744
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI- of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to the application filed 05	<u>9/15/03</u> .	
2. The allowed claim(s) is/are <u>1-10</u> .		
3. \square The drawings filed on are accepted by the Examiner	,	
4.		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Summar Paper No./Mail D 8), 7. ☐ Examiner's Amen	ate

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Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claims 1 and 5 are allowable because the prior art of record fails to disclose or suggest or teach the recited introducing the subsidiary cryogenic stream into the phase separator and subjecting the subsidiary cryogenic stream to a lower pressure than that of the storage vessel so as to cause the subsidiary cryogenic stream to boil and produce a boiling pool of a liquid fraction of the subsidiary cryogenic stream covering the heat exchanger and having a lower temperature than the cryogenic liquid stream, thereby to subcool the cryogenic liquid stream; and controlling flow of the subsidiary cryogenic stream by suspending the flow when the liquid fraction is at a predetermined level, above that of the heat exchanger, reestablishing the flow after liquid level of the liquid fraction has fallen due to the boil off thereof, and between the suspension of the flow and the reestablishment thereof, temporarily reestablishing the flow to remove warm and vaporized liquid; and controlling flow of the subsidiary cryogenic stream by suspending the flow when the liquid fraction is at a predetermined level, above that of the heat exchanger, reestablishing the flow after liquid level of the liquid fraction has fallen due to the boil off thereof, and between the suspension of the flow and the reestablishment thereof, temporarily reestablishing the flow to remove warm and vaporized liquid (see claim 1); a control system responsive to the signals generated by the liquid level detector and the temperature signals to operate the remotely operated valve to assume a closed position, suspending the flow, when the height of the liquid fraction it at a re determine

level above the heat exchanger, to assume an open position, reestablishing the flow, after the height of the liquid fraction has fallen due to boil off of the liquid fraction, and to temporarily assume the open position in response to a temperature indicative that warm liquid and vapor has formed at the inlet of the pump (see claim 5)Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Ali whose telephone number is 703-308-5032. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Esquivel Denise can be reached on 703-308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Md. Mdein Ali Mohammad M. Ali November 19, 2004

WILLIAM COERRLER PATENT EXAMINER GROUP 2400